

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P949732

Luminaire Tested: **GALN-SB4B-927-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-927-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10484 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

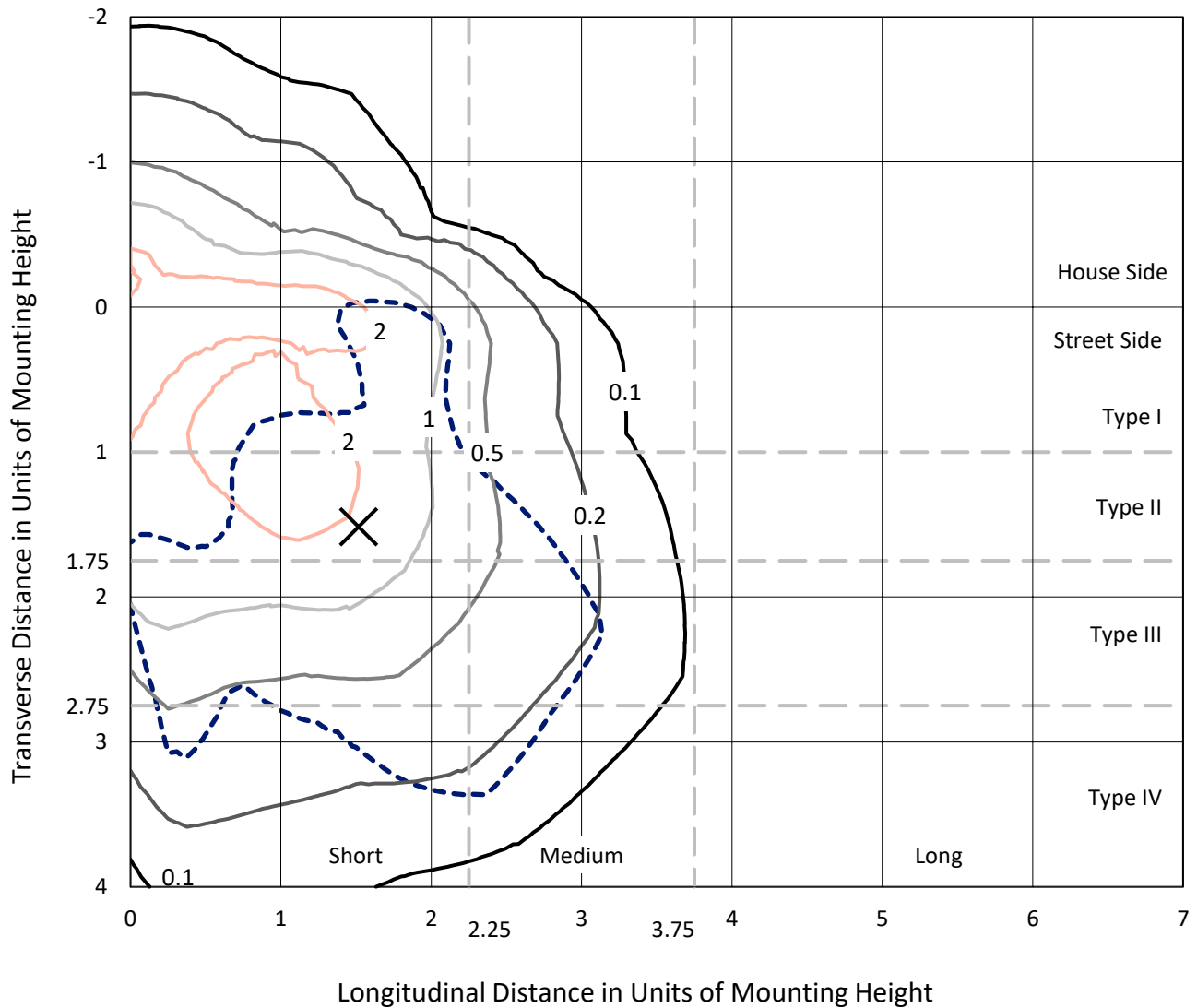
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

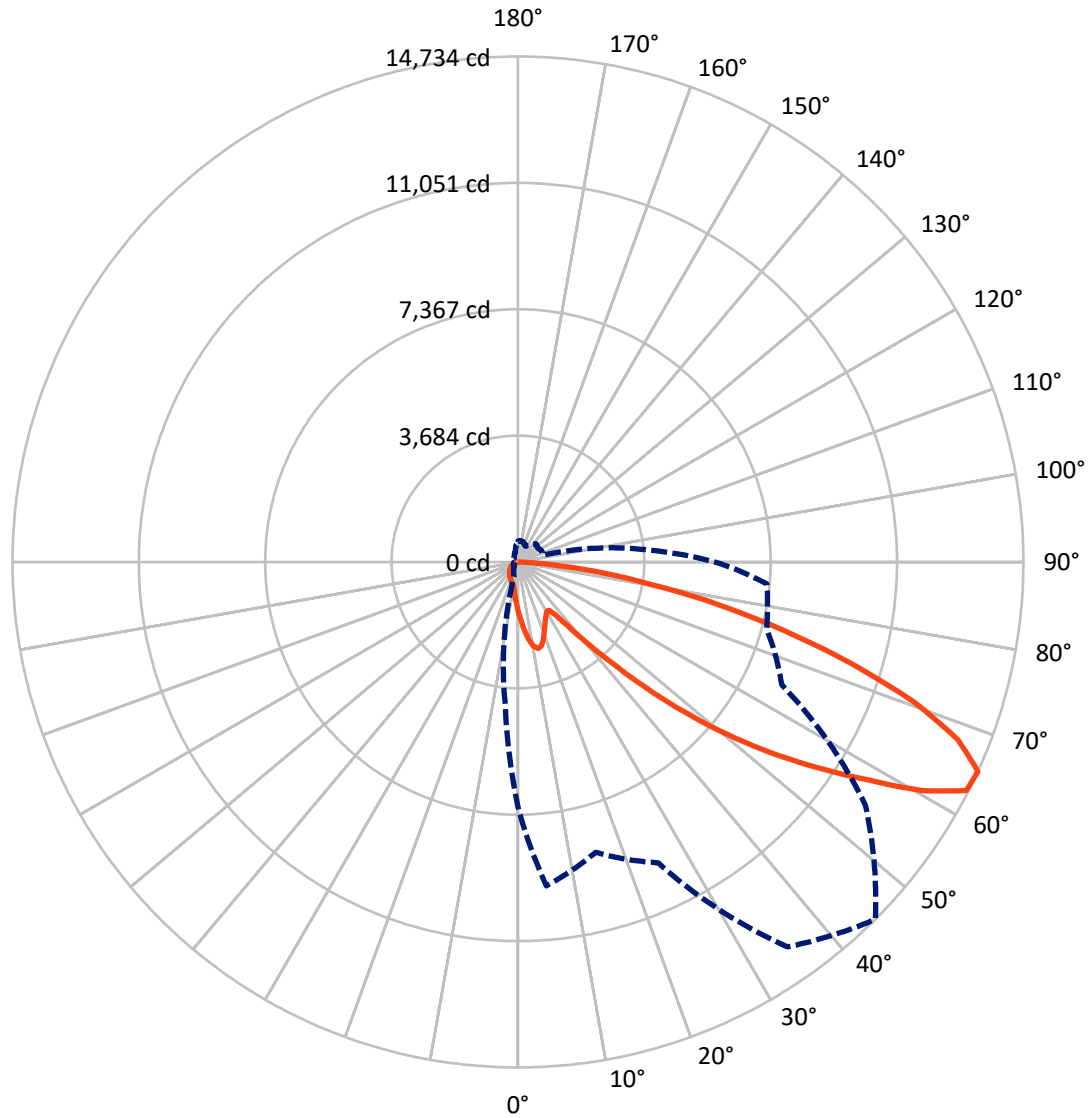
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2083.9	0.0	2083.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	8400.1	0.0	8400.1
	% Fixture	80.1	0.0	80.1
Total	Lumens	10484.0	0.0	10484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	1.4
10°-20°	428.4	4.1
20°-30°	631.2	6.0
30°-40°	810.9	7.7
40°-50°	1311.5	12.5
50°-60°	2299.8	21.9
60°-70°	2877.7	27.4
70°-80°	1681.6	16.0
80°-90°	300.0	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10484.0	100.0
0°-180°	10484.0	100.0

Coefficient of Utilization



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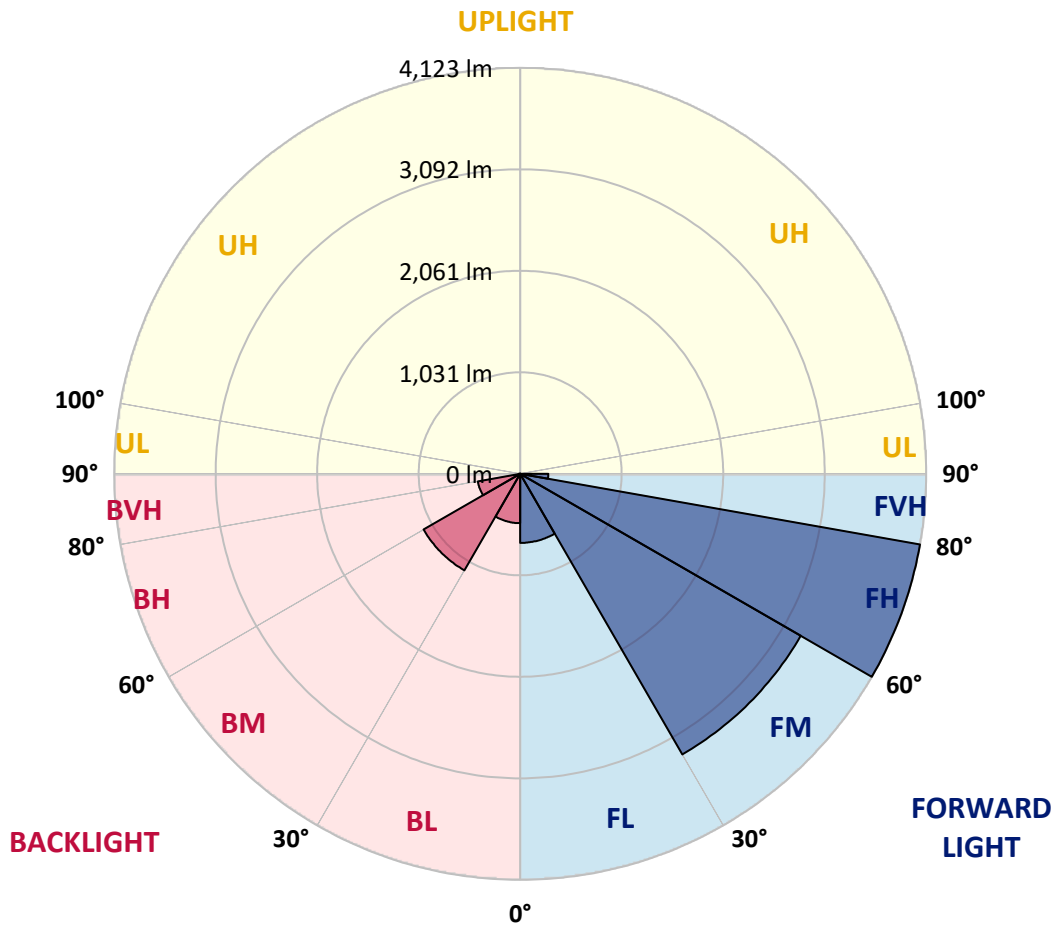
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	701.5	6.7			
FM (30°-60°)	3290.0	31.4			
FH (60°-80°)	4122.6	39.3			G2/5000
FVH (80°-90°)	286.0	2.7			G3/500
BL (0°-30°)	501.1	4.8	B2/1000		
BM (30°-60°)	1132.2	10.8	B2/2500		
BH (60°-80°)	436.6	4.2	B1/500		G1/500
BVH (80°-90°)	14.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7
2.5°	1626.5	1638.8	1666.2	1680.6	1703.0	1704.5	1704.5	1685.0	1684.3	1644.5
5°	1817.9	1846.8	1911.8	1978.9	1993.4	1997.0	1989.8	1950.8	1921.9	1844.6
7.5°	2007.8	2063.4	2162.4	2251.9	2280.8	2280.8	2263.5	2199.9	2140.7	2028.8
10°	2165.3	2235.3	2369.7	2470.1	2503.3	2496.1	2460.7	2380.5	2298.9	2163.1
12.5°	2269.3	2348.0	2495.3	2576.2	2610.2	2591.4	2550.9	2472.9	2387.0	2244.0
15°	2321.3	2403.6	2531.4	2574.1	2564.7	2545.2	2540.1	2502.6	2437.6	2303.9
17.5°	2343.7	2420.2	2509.1	2482.3	2402.9	2387.7	2438.3	2485.9	2470.1	2355.9
20°	2364.6	2428.9	2455.6	2337.2	2198.5	2184.8	2281.6	2417.3	2486.7	2404.3
22.5°	2393.5	2433.2	2378.3	2184.0	2034.5	2002.8	2109.7	2314.1	2491.7	2465.7
25°	2433.2	2444.1	2293.1	2038.9	1888.7	1856.9	1956.5	2199.2	2483.1	2532.2
27.5°	2480.9	2458.5	2211.5	1917.5	1772.4	1742.8	1842.4	2088.7	2458.5	2598.6
30°	2543.0	2477.3	2130.6	1823.7	1689.3	1667.6	1763.7	1993.4	2428.2	2683.1
32.5°	2605.8	2485.2	2055.5	1768.8	1670.5	1678.5	1757.2	1942.1	2394.9	2764.0
35°	2673.7	2510.5	2018.7	1822.9	1827.3	1896.6	1929.1	1989.8	2389.9	2873.8
37.5°	2766.2	2566.8	2062.7	2092.3	2242.5	2386.3	2359.6	2223.0	2448.4	3037.7
40°	2899.1	2665.8	2254.8	2550.9	2859.3	3092.6	2990.8	2647.0	2627.5	3273.9
42.5°	3092.6	2823.2	2595.7	3111.4	3634.3	4018.5	3745.5	3193.7	2941.0	3611.2
45°	3378.6	3078.2	3008.1	3702.9	4589.8	5195.1	4627.4	3776.6	3380.1	4121.8
47.5°	3775.1	3453.0	3394.5	4326.2	5751.2	6534.1	5605.3	4316.8	3879.9	4818.1
50°	4301.6	3957.9	3760.7	5008.0	7024.5	7899.1	6582.5	4838.3	4452.6	5668.8
52.5°	4996.4	4662.0	4187.5	5657.3	8333.9	9235.3	7564.0	5296.2	5163.3	6656.1
55°	5944.0	5721.6	4771.1	6277.0	9642.6	10579.3	8507.2	5728.1	6102.2	7829.1
57.5°	7119.8	7278.7	5612.5	6995.6	10819.1	11964.6	9454.8	6331.9	7321.3	9140.6
60°	7878.2	9349.4	7223.8	8058.0	12156.0	13531.1	10753.4	7480.2	8602.6	9610.8
62.5°	7694.7	10008.1	9153.6	9414.4	13385.2	14670.1	12026.0	8633.6	8843.8	8918.2
65°	7132.1	9476.5	8760.0	9678.0	13696.5	14734.4	12366.2	8484.9	7501.9	7280.9
67.5°	6357.9	8846.0	7824.7	8978.9	13133.9	13835.9	11732.8	7505.5	5797.4	5463.7
70°	5522.2	8148.3	7210.8	8194.5	12061.4	12270.1	10655.9	6601.3	4264.1	3689.9
72.5°	4729.2	7421.7	6790.5	7390.7	10630.6	10198.7	9254.0	5801.7	3104.9	2661.4
75°	3918.1	6349.9	6191.7	6435.9	8749.2	8033.5	7688.9	4803.6	2436.8	1925.5
77.5°	3023.3	4961.8	5325.8	5153.9	6158.5	5967.1	5959.9	3609.7	1780.3	1284.9
80°	2069.2	3458.1	4160.8	3635.7	3996.9	3899.4	4488.7	2421.7	1291.4	773.5
82.5°	1216.2	2105.3	2896.2	1760.1	2210.0	2268.5	2673.0	1178.0	759.8	178.4
85°	493.3	831.3	1132.5	689.0	1066.0	899.2	1014.7	330.8	211.6	4.3
87.5°	124.2	265.8	186.3	77.3	123.5	113.4	89.6	40.4	8.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1451.7	0°	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7
1640.2	2.5°	1612.0	1595.4	1554.3	1513.1	1479.9	1435.1	1405.5	1370.1	1336.1	1305.8
1828.0	5°	1782.5	1727.6	1652.5	1583.9	1513.8	1445.9	1378.8	1308.0	1243.0	1203.2
1986.9	7.5°	1921.2	1824.4	1724.7	1637.3	1552.8	1473.4	1384.5	1298.6	1196.7	1142.6
2108.2	10°	2024.4	1897.3	1766.6	1666.2	1581.0	1503.7	1428.6	1341.9	1219.1	1151.2
2181.9	12.5°	2092.3	1941.4	1788.3	1673.4	1578.1	1518.1	1484.9	1451.0	1328.9	1249.5
2236.0	15°	2139.3	1972.4	1803.4	1656.8	1539.8	1495.8	1529.0	1568.0	1490.0	1398.3
2292.4	17.5°	2190.5	2012.9	1809.9	1612.0	1465.4	1446.6	1532.6	1622.9	1619.3	1528.3
2345.8	20°	2244.7	2048.3	1805.6	1539.8	1375.1	1391.8	1501.5	1606.3	1650.3	1601.2
2407.2	22.5°	2300.3	2082.2	1789.0	1445.9	1290.6	1342.6	1452.4	1544.1	1596.1	1581.0
2482.3	25°	2370.4	2129.9	1764.4	1344.8	1220.6	1292.8	1395.4	1469.8	1505.9	1505.1
2563.2	27.5°	2454.2	2193.4	1751.4	1263.2	1170.7	1236.5	1327.5	1393.9	1419.2	1419.2
2663.6	30°	2551.7	2268.5	1737.0	1209.7	1141.9	1178.0	1248.7	1313.8	1339.0	1339.0
2773.4	32.5°	2660.0	2340.8	1702.3	1177.2	1120.2	1120.9	1165.7	1224.9	1255.2	1259.6
2910.6	35°	2790.0	2418.1	1626.5	1151.2	1094.9	1065.3	1087.0	1136.1	1172.2	1181.6
3106.3	37.5°	2960.5	2512.7	1518.1	1113.0	1055.9	1006.8	1011.9	1049.4	1089.1	1103.6
3376.5	40°	3189.4	2623.9	1405.5	1058.1	1001.0	942.5	940.4	967.8	1006.8	1022.7
3741.9	42.5°	3492.0	2757.5	1297.9	1005.4	934.6	874.6	871.0	892.7	926.6	943.2
4224.4	45°	3879.1	2921.5	1205.4	964.2	869.6	810.4	808.9	827.0	856.6	873.9
4841.9	47.5°	4417.2	3085.4	1142.6	942.5	818.3	757.6	760.5	776.4	803.1	815.4
5641.4	50°	5118.5	3135.2	1110.8	942.5	790.9	710.7	725.1	738.1	758.3	765.6
6599.8	52.5°	5791.6	2970.6	1081.9	948.3	794.5	671.0	702.0	711.4	728.7	731.6
7488.2	55°	6121.7	2553.8	1042.2	949.7	816.9	637.0	683.2	700.6	707.1	706.3
8003.8	57.5°	6008.3	2064.9	975.0	944.0	832.0	615.3	660.1	693.3	697.7	691.2
7905.6	60°	5610.3	1520.3	923.7	901.4	826.2	608.8	624.7	677.5	684.0	675.3
7148.7	62.5°	4943.0	1055.2	884.0	807.5	801.0	606.7	569.1	642.8	658.7	646.4
5746.1	65°	3891.4	745.3	761.2	707.8	746.1	595.1	511.3	600.9	622.6	603.8
4168.8	67.5°	2633.3	538.1	616.8	641.3	657.2	569.1	469.5	553.2	582.1	557.6
2675.2	70°	1422.1	377.7	407.3	540.2	558.3	524.3	431.9	504.8	538.1	511.3
1901.7	72.5°	840.0	271.6	285.3	434.1	465.1	461.5	390.0	448.5	489.0	457.2
1312.3	75°	463.0	183.4	203.7	314.9	377.7	356.1	335.1	379.9	421.1	390.0
822.6	77.5°	207.3	109.8	141.6	206.6	296.8	244.1	259.3	296.1	334.4	301.9
457.9	80°	80.2	61.4	93.9	112.7	215.9	135.1	166.8	218.1	245.6	219.6
99.7	82.5°	10.1	27.4	40.4	44.1	125.7	71.5	96.8	137.2	135.1	117.0
0.0	85°	0.0	5.1	5.8	2.9	54.2	26.0	31.8	44.8	41.9	31.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1451.7	0°	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7
1300.0	2.5°	1264.6	1238.6	1225.6	1214.8	1224.9	1230.7	1230.7	1255.2	1269.7	1275.5
1178.0	5°	1114.4	1066.0	1033.5	1014.0	1020.5	1027.7	1035.7	1066.7	1087.7	1101.4
1093.5	7.5°	996.0	922.3	876.8	853.0	856.6	861.6	868.1	898.5	919.4	937.5
1077.6	10°	937.5	833.5	773.5	744.6	739.6	736.7	734.5	752.6	768.5	782.9
1142.6	12.5°	940.4	795.2	722.2	686.8	671.7	654.3	640.6	643.5	653.6	671.7
1258.9	15°	977.2	782.9	695.5	651.5	626.2	606.0	589.3	585.7	589.3	592.2
1391.8	17.5°	1027.0	781.5	672.4	617.5	591.5	574.9	559.7	554.7	555.4	559.0
1479.9	20°	1066.7	777.1	646.4	585.0	561.9	547.5	532.3	527.2	528.7	529.4
1488.5	22.5°	1087.7	770.6	617.5	552.5	533.0	518.6	504.8	504.1	504.1	508.5
1441.6	25°	1087.7	756.9	591.5	521.5	504.1	491.1	474.5	477.4	478.8	484.6
1368.6	27.5°	1061.7	730.9	570.6	494.7	476.7	463.7	448.5	452.1	454.3	460.8
1296.4	30°	1028.5	699.8	546.7	469.5	448.5	439.1	426.1	427.6	430.5	437.7
1229.2	32.5°	993.1	663.0	527.2	444.2	423.2	416.0	401.6	403.7	406.6	414.6
1162.8	35°	954.1	619.7	504.1	421.1	400.1	394.3	377.7	379.2	383.5	392.2
1091.3	37.5°	912.9	584.3	481.0	398.7	377.0	371.2	353.9	355.3	360.4	370.5
1016.2	40°	872.5	549.6	456.5	374.8	353.2	348.1	329.3	330.8	336.6	347.4
940.4	42.5°	828.4	522.9	424.7	350.3	327.2	322.1	304.8	307.0	313.5	324.3
870.3	45°	775.7	505.6	389.3	327.2	301.2	296.1	280.2	284.6	291.8	302.6
810.4	47.5°	721.5	498.3	359.7	302.6	274.5	270.1	257.1	264.3	272.3	281.0
759.1	50°	669.5	489.0	329.3	279.5	251.3	247.0	238.3	247.7	255.7	263.6
722.2	52.5°	610.3	468.7	301.9	259.3	231.8	230.4	226.1	234.7	241.9	249.2
690.5	55°	548.9	436.2	278.1	241.2	215.2	216.7	214.5	221.7	227.5	234.0
661.6	57.5°	495.5	395.1	259.3	221.7	200.8	205.1	202.2	205.8	209.4	217.4
626.9	60°	441.3	346.0	238.3	198.6	186.3	191.4	183.4	182.7	184.2	186.3
575.6	62.5°	368.3	294.7	212.3	178.4	170.4	172.6	157.4	145.9	145.9	148.1
504.1	65°	296.1	247.0	183.4	155.3	148.8	147.3	125.7	109.8	108.3	114.8
421.1	67.5°	243.4	205.1	154.6	129.3	124.9	126.4	110.5	94.6	93.2	100.4
343.1	70°	201.5	165.4	123.5	99.7	104.0	110.5	94.6	79.4	77.3	83.8
278.8	72.5°	160.3	129.3	94.6	73.7	85.9	93.9	77.3	62.8	61.4	67.2
215.2	75°	117.7	92.4	64.3	53.4	66.4	73.7	56.3	44.8	42.6	47.7
143.7	77.5°	72.9	52.0	40.4	31.8	45.5	49.1	29.6	26.0	25.3	28.9
87.4	80°	33.9	22.4	19.5	10.8	16.6	19.5	12.3	13.7	14.4	17.3
44.1	82.5°	9.4	3.6	0.7	0.0	0.0	5.8	2.9	5.8	7.2	10.8
3.6	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.6	6.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1451.7	0°	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7	1451.7
1315.9	2.5°	1346.3	1375.1	1421.4	1469.0	1516.0	1563.6	1609.9	1626.5
1164.2	5°	1221.3	1287.8	1379.5	1477.7	1578.8	1681.4	1775.3	1817.9
1007.5	7.5°	1081.9	1177.2	1315.2	1469.0	1630.1	1791.2	1939.2	2007.8
852.2	10°	933.1	1053.7	1211.2	1419.2	1650.3	1872.8	2076.4	2165.3
715.7	12.5°	791.6	918.0	1092.0	1341.2	1634.4	1919.7	2164.5	2269.3
619.7	15°	673.1	785.1	972.9	1248.7	1583.1	1922.6	2206.4	2321.3
566.2	17.5°	584.3	657.2	851.5	1146.2	1516.0	1895.9	2220.9	2343.7
537.3	20°	540.2	560.5	694.1	1014.7	1453.1	1870.6	2235.3	2364.6
514.2	22.5°	514.2	519.3	567.7	845.0	1378.0	1862.7	2260.6	2393.5
493.3	25°	493.3	494.7	507.7	669.5	1263.2	1857.6	2299.6	2433.2
471.6	27.5°	472.3	472.3	479.6	539.5	1107.2	1835.9	2350.2	2480.9
450.0	30°	451.4	451.4	456.5	477.4	924.5	1793.3	2410.8	2543.0
428.3	32.5°	429.7	429.7	434.1	449.2	738.1	1739.9	2466.4	2605.8
405.9	35°	408.1	406.6	412.4	428.3	587.2	1672.0	2522.1	2673.7
383.5	37.5°	385.0	384.2	390.0	408.1	507.0	1593.3	2563.9	2766.2
361.1	40°	360.4	360.4	366.9	386.4	483.9	1494.3	2630.4	2899.1
338.0	42.5°	338.0	336.6	343.8	367.6	466.6	1399.7	2749.6	3092.6
317.1	45°	316.3	313.5	320.0	349.6	436.2	1366.5	2972.0	3378.6
296.8	47.5°	296.1	288.9	294.7	327.9	408.8	1490.7	3336.0	3775.1
278.8	50°	279.5	265.8	270.8	306.2	387.8	1760.1	3808.4	4301.6
262.2	52.5°	262.2	244.1	247.0	279.5	369.1	2016.5	4320.4	4996.4
245.6	55°	244.1	223.9	225.3	252.8	342.3	2054.8	4820.2	5944.0
226.8	57.5°	223.9	205.1	205.1	228.2	322.8	1781.0	5204.4	7119.8
203.7	60°	201.5	189.2	185.6	208.7	340.2	1256.7	5249.2	7878.2
174.1	62.5°	176.9	170.4	165.4	189.9	353.2	744.6	4888.8	7694.7
137.2	65°	148.8	147.3	143.7	208.7	297.6	439.8	4196.9	7132.1
117.0	67.5°	124.9	122.8	122.8	218.8	226.1	276.6	3279.0	6357.9
99.7	70°	107.6	99.7	99.7	165.4	137.2	191.4	2289.5	5522.2
82.3	72.5°	90.3	81.6	75.8	132.2	102.6	140.1	1430.8	4729.2
62.8	75°	72.2	65.7	58.5	87.4	76.6	106.2	831.3	3918.1
39.7	77.5°	52.0	49.1	41.2	64.3	55.6	76.6	494.7	3023.3
24.6	80°	26.7	27.4	26.0	36.8	37.6	52.0	281.7	2069.2
15.9	82.5°	15.9	12.3	13.7	18.1	21.7	29.6	106.2	1216.2
11.6	85°	10.1	6.5	6.5	8.7	10.8	11.6	32.5	493.3
5.8	87.5°	5.1	2.2	2.9	4.3	3.6	2.9	1.4	124.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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